ABSTRACT

A machining data generator generates NC machining data specifying machining operations for shaping the external shape of a piston. The machining data generator uses a machining data sheet (provided by a spreadsheet software) describing noncircular part shape data on the shape of a noncircular part and condition data (machining condition data and shape data on shapes of parts other than the noncircular part necessary for shaping the overall shape of the piston). The machining data sheet is prepared beforehand. A machining data generation program reads the machining data sheet in step S4, recognizes directives "start cell" and "end cell" defining a cell region and described in the machining data sheet and fetches matrix data from the cell region in step S5, and fetches condition data other than the noncircular part shape data from the machining data sheet, and calculates NC machining data to be given to a NC machine tool on the basis of the condition data and the noncircular part shape data in step S6. Data management work for individually managing the noncircular part shape data and the other condition data is not necessary, those data can be collectively managed, and the relevant data can be collectively entered.